

APPENDIX C. LIST OF STANDARDS, SPECIFICATIONS, AND TEST METHODS RELATED TO DELINEATION

Federal Highway Administration (FHWA)

For ordering information on these publications, contact FHWA, Office of Highway Safety (HHS-30), Washington, D.C. 20590.

1. *Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects (FP-92).*
2. *Federal Test Method Standard 370--Instrumental Photometric Measurements of Retro-reflective Materials and Retroreflective Devices*, General Services Administration, March 1977.
3. *Federal Test Method Standard 141-Paint, Varnish, Lacquer and Related Materials, Methods of Inspection, Sampling & Testing.*
4. *Federal Specification LS 300 C, Federal Specification Sheet and Tape, Reflective: Non-exposed lens*, General Services Administration, March 10, 1979.
5. *Standard Highway Color Tolerance Charts.*
6. *Standard Alphabets for Highway Signs*, 1966 Edition.
7. *Standard Alphabets for Highway Signs and Pavement Markings*, Metric Edition, 1977.
8. *U.S. Road Symbol Signs Brochure*-Stock No. 050-000-00152-1 (limit maximum quantity to 5 for any one request). Additional copies are available from the Government Printing Office (see address below).
9. *Specifications for Standard Highway Sign Colors*, May 1979.
10. *Outdoor Testing of Reflective Sign Materials*, Reprinted with Permission from the U.S. Forest Service, September 1985.
11. *Pavement Marking Test and Evaluation Procedures*, Final Report (Report No. FHWA-TS-89-006), dated March 1989.
12. *Traffic Control Devices on Federal-Aid and Other Streets and Highways*, Federal-Aid Highway Program Manual 6-8-3-1, November 1983.
13. TT-B-1325B, *Federal Specification Beads (Glass Spheres) Retro-Reflective*, General Services Administration, April 1978.

American Society for Testing and Materials (ASTM)

For these publications, contact ASTM at 1916 Race Street, Philadelphia, PA 19103.

1. *B 117 Method of Salt Spray (Fog) Testing.*
2. *B 209 Specifications for Aluminum and Aluminum-Alloy Sheet and Plate.*
3. *D 523 Standard Test Method for Specular Gloss.*
4. *D 711 No Pick-Up Time (Drying Time) on Traffic Paint Test.*
5. *D 713 Conducting Road Service Tests on Fluid Traffic Marking Materials.*
6. *D 868 Evaluating Degree of Bleeding in Traffic Paint in Road Service Tests.*
7. *D 869 Evaluating Degree of Settling and Ease of Remixing in Traffic Paint.*
8. *D 913 Method for Evaluating Degree of Chipping of Traffic Paint.*
9. *D 969 Evaluating Degree of Bleeding in Traffic Paint in Laboratory Tests.*
10. *D 1155 Test for Roundness of Glass Spheres in Traffic Paint.*
11. *D 1214 Sieve Analysis of Glass Spheres in Traffic Paint.*
12. *D 1309 Laboratory Test for Settling Properties in Traffic Paint During Storage.*
13. *D 2205 Practices for Testing of Traffic Paint.*
14. *D 2743 Standard Practice for Selection and Use of Test Procedures on Uniformity of Vehicle Solids (by Spectroscopy / Gas Chromatography) in Traffic Paint.*
15. *D 2792 Test for Solvent and Fuel Resistance in Traffic Paint.*
16. *D 2794 Standard Methods of Test for Resistance of Organic Coatings to Effects of Rapid Deformation (Impact).*
17. *D 4061 Test for Retroreflectance/Specific Luminance in Traffic Paint.*
18. *D 4451 Test for Pigment Content of Paint/Traffic Marking Material by Low-Temperature Furnace Ashing.*
19. *D 4505 Standard Specification for Preformed Plastic Pavement Marking Tape for Extended Service Life.*
20. *D 4507 Specifications for Thermoplastic Polyester (TPES) Materials.*
21. *D 4592 Specifications for Preformed Plastic Pavement Marking Tape for Limited Service Life.*
22. *D 4796 Test for Bond Strength of Thermoplastic Traffic Marking Materials Using Cement Bricks / Steel Cubes.*

23. *D 4956 Standard Specifications for Retroreflective Sheeting for Traffic Control.*
24. *E 97 Standard Test Method for Directional Reflectance Factor, 45-deg 0-deg, of Opaque Specimens by Broad-Band Filter Reflectometry.*
25. *E 284 Standard Definition of Terms Relating to Appearance of Materials.*
26. *E 808 Standard Practice for Describing Retroreflection.*
27. *E 809 Standard Practice for Measuring Photometric Characteristics of Retroreflectors.*
28. *E 810 Standard Test Method for Coefficient of Retroreflection of Retroreflective Sheeting.*
29. *E 811 Standard Practice of Measuring Colorimetric Characteristics of Retroreflectors under Nighttime Conditions.*
30. *G 23 Recommended Practice for Operating Light-and-Water Exposure Apparatus (Carbon-Arc Type) for Exposure of Non-Metallic Materials.*

American Association of State Highway and Transportation Officials (AASHTO)

For these publications, contact the AASHTO at 444 N. Capitol Street, Suite 225, Washington, D.C. 20001.

1. *M247-81 (1986) Standard Specification for Glass Beads Used in Traffic Paint.*
2. *M268-841 Retroreflective Sheeting for Traffic Control.*
3. *T 257 Test Method for Instrumental Photometric Measurements of Retroreflective Materials and Retroreflective Devices.*
4. *Standard Specifications for Transportation Materials, 1990 Edition (\$75.00 prepaid).*
5. *M249-39 (1986) Standard Specification for White and Yellow Reflective Thermoplastic Striping Material (Solid Form).*

Government Printing Office (GPO)

For these publications, contact the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402, telephone: 202-783-3238. Make check or money order payable to Superintendent of Documents.

1. *Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD 1988 Edition),* Stock No. 050-001-00308-2. Price: \$22, Domestic and \$27.50, Foreign.
2. *Standard Highway Signs Book,* Stock No. 950-044-00000-4. Price: \$30, Domestic and \$37.50, Foreign. Price includes subscription service for revisions.
3. *Standard Specifications for Construction of Roads and Bridges on Federal-Aid Highways (FP-92),* Stock No. 050-001-00313-9.

Miscellaneous Publications

1. *Standards for Work Zone Traffic Control*, 1988 Edition, is available from the American Traffic Safety Services Association (ATSSA), 5440 Jefferson Davis Highway, Fredericksburg, VA 22401, telephone: 7038985400. This handbook contains all the material from Part VI of the 1988 Edition of the MUTCD. Price: \$4.50 per copy for nonmembers and \$3 per copy for ATSSA members and public agencies. Bulk quantity discounts are available by contacting ATSSA.
2. Standard Color Tolerance Charts are available from Hale Color Consultants, Inc., 1505 Phoenix Road, Phoenix, MD 21131, telephone: 301-472-4850.
3. *Uniform Vehicle Code and Model Traffic Ordinance* is available from the National Committee on Uniform Traffic Laws and Ordinances, 405 Church Street, Evanston, IL, 60201, telephone: 708-491-5280. This publication is designed as a comprehensive guide for developing uniform State and local motor vehicle and traffic laws. It is based on actual experience under various State and local laws throughout the United States.
4. *A Model Performance Specification for the Purchase of Pavement Marking Paints and Powder*, September 1977. Institute of Transportation Engineers, 535 School Street SW, Suite 411, Washington, DC 20024.
5. *A Model Performance Specification for the Purchase of Thermoplastic and Preformed Plastic Pavement Marking Materials*, September 1981. Institute of Transportation Engineers, 535 School Street SW, Suite 411, Washington, DC 20024.
6. *A Model Performance Specification for the Purchase of Pavement Marking Paints*, January 1992. Institute of Transportation Engineers, 535 School Street SW, Suite 411, Washington, DC 20024.